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PTO/SB/21 (08-00)

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TRA	NSMITTA	NL	Application Number		09/457,209 RECEIVED	
	FORM		Filing Date		12/08/1999 AUG 1 4 200	
(to be used for a	initial filing)	First Named Inventor		Cain Technology Center 21(
			Group Art Unit		2155	
			Examiner Name		Zia	
Total Num	ber of Pages in This Sub	mission	Attorney Docket Num	Attorney Docket Number 2204/186 120-025		
		ENCLOSURES	(check all that apply,	·)		
Fee Transm	ittal Form		ment Papers Application)		After Allowance Communication to Group	
Fee A	Attached	Drawing	• •		Appeal Communication to Board of Appeals and Interferences	
Amendment		Licensi	ng-related Papers		Appeal Communication to Group (Appeal Notice, Brief, Reply Brief)	
After	Final	Petition			Proprietary Information	
Affida	vits/declaration(s)		to Convert to a		Status Letter	
Extension of	Extension of Time Request Power of Change				Other Enclosure(s) (please identify below):	
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Information [Form PTO-1	Disclosure Statement, 449	Reques	st for Refund			
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Incomplete A	onse to Missing Parts	Remarks Please charge any deficiency or credit any overpayment to Deposit Account No. 502569.			redit any overpayment to Deposit	
L under	37 CFR 1.52 or 1.53					
			CANT, ATTORNEY, OF	R AGI	ENT	
Firm or Individual name	Lindsay G. McGuini Steubing McGuinne					
Signature	Lindsay	1 me	4			
Date	8/1/8	w3				
	CI	ERTIFICATE OF	MAILING or FACSIMI	ILE		
I hereby certify that the on this date:	is correspondence is bei	ng transmitted or	mailed to the United State	s Pate	ent and Trademark Office	
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PTO/SB/17 (10-02)
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FEE TRANSMITTAL for FY 2003

Patent fees are subject to annual revision.

Applicant Claims small entity status. See 37 CFR 1.27

TOTAL	AMOUNT	OF PAYMENT	(\$)180.00

SUBMITTED BY

Name (Print/Type)

Signature

Lindsay G. McGuinness

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	Complete if Kn	iown
Application Number	09/457,209	RECEIVED
Filing Date	12/8/1999	
First Named Inventor	Cain	AUG 1 4 2003
Examiner Name	Zia	Toohnoless O. I. a.
Art Unit	2155	Technology Center 210
Attorney Docket No.	2204/186 120-0	025

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38,549

This collection of information is required by 37 CFR 1.17 and 1.27. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 37 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 12 minutes to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, Washington, DC 20231. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, Washington, DC 20231.



IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Applicant(s): Cain

Serial No.: 09/457209

Filed: 12/8/1999

Title: System Device and Method for

Sending Keep-Alive Messages in a

Communications Network

Attorney Docket No.: 2204/186 120-025

Commissioner for Patents

P.O. Box 1450

Alexandria, VA 22313

RECEIVED

Group Art Unit: 2155

Examiner: Zia

AUG 1 4 2003

Technology Center 2100

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INFORMATION DISCLOSURE STATEMENT

Dear Sir:

This Information Disclosure Statement is submitted:

—	under 37 CFR 1.97(b), or (Within three months of filing national application; or date of entry of international application; or before mailing date of first office action on the merits; whichever occurs last)
X	under 37 CFR 1.97(c) together with either a:
	Statement under 37 CFR 1.97(e), or
	x a \$180.00 fee under 37 CFR 1.17(p), or
	(A family CED 1 07/k) time manied but before final action an action of

(After the CFR 1.97(b) time period, but before final action or notice of allowance, whichever occurs first)

under 37 CFR 1.97(d) together with a:

- __ Statement under 37 CFR 1.97(e), and
- __ a \$180.00 fee set forth in 37 CFR 1.17(p).

(Filed after final action or notice of allowance, whichever occurs first, but before payment of the issue fee)

X Applicant(s) submit herewith Form PTO 1449-Information Disclosure Citation together with copies, of patents, publications or other information of which applicant(s) are aware, which applicant(s) believe(s) may be material to the examination of this application and for which there may be a duty to disclose in accordance with 37 CFR 1.56.

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The relevance of the attached references is that this is the closest art of which Applicant is aware. Applicant submits that the above references taken alone or in combination neither anticipate nor render obvious the present invention. Consideration of the foregoing in relation to this application is respectfully requested.

It is requested that the information disclosed herein be made of record in this application.

Respectfully submitted,

I hereby certify that this correspondence is being deposited with the United States Postal Service as first class mail in an envelope addressed to: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313.

Date of Deposit: 8-7-03

Typed Name: Carol Ann Mahoney

Lindsay McGuinness, Reg. No. 38,549

Attorney/Agent for Applicant(s)

Steubing McGuinness & Manaras LLP

30 Nagog Park

Acton MA 01720

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		Wollman, Overview of Open Shortest Path First, Version 2 (OSDPF V2) Routing in the Tactical Environment								
		Mosedale, Administering Very High Volume Internet Services, 1995 LISA IX, September 17-22, 1995								

EXAMINER DATE CONSIDERED

Jon Anderson and MattD. Nguyen, ATM-Layer OAM Implementation Issues, IEEE Communications Magazine, September 1991

#EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

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^{*}a copy of this reference is not provided as it was previously cited by or submitted to the office in a prior application, Serial No. ___, filed ___, and relied upon for an earlier filing date under 35 U.S.C. 120 (continuation, continuation-in-part, and divisional applications).